

Title (en)  
SPRING CLAMPING CYLINDER

Publication  
**EP 0212047 A3 19890426 (DE)**

Application  
**EP 86102706 A 19860301**

Priority  
DE 3526573 A 19850725

Abstract (en)  
[origin: EP0212047A2] To rapidly clamp tool parts, a spring clamping cylinder is proposed which essentially consists of a cylinder (1) and a spring-loaded piston (4) guided in the cylinder (1) and having a piston rod (3), in which arrangement the free end of the piston rod (3) has a head (3a) designed as a negative (female) part of a bayonet catch (12). The associated, corresponding positive (male) part is the head piece (17) of a screw which is screwed into a tapped hole in the machine part (20) to which a workpiece (19) is to be clamped. The end remote from the catch side has a socket which is part of a hydraulic quick-acting coupling (10) with which pressure can be exerted on the piston (4) against the spring force. The use of this quick-acting clamping nut is especially suitable in heating presses for tyres or in plastic blow moulding machines, especially for fastening tyre parts or blow mouldings. <IMAGE>

IPC 1-7  
**B23Q 3/06**; **B23B 31/04**; **B25B 5/06**; **B29C 33/30**

IPC 8 full level  
**B25B 5/06** (2006.01)

CPC (source: EP)  
**B25B 5/06** (2013.01); **B25B 5/061** (2013.01)

Citation (search report)  
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• [A] FR 2536697 A1 19840601 - HEHL KARL [DE]  
• [A] EP 0125220 A2 19841114 - SCHEDWIN SVEN ERIK  
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Cited by  
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